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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/710,314	07/01/2004	Leonard Shaner	81100061 / FMC 1755 PUS	4313
28395 7590 11/19/2007 BROOKS KUSHMAN P.C./FGTL 1000 TOWN CENTER 22ND FLOOR SOUTHFIELD, MI 48075-1238			EXAMINER	
			SPISICH, GEORGE D	
			ART UNIT	PAPER NUMBER
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)		
•	10/710,314	SHANER ET AL.		
Office Action Summary	Examiner	Art Unit		
	George D. Spisich	3616		
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address		
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  If NO period for reply is specified above, the maximum statutory period w  - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONEI	J. ely filed the mailing date of this communication. D (35 U.S.C. § 133).		
Status				
Responsive to communication(s) filed on <u>04 Secondary</u> This action is <b>FINAL</b> . 2b)⊠ This      Since this application is in condition for allower closed in accordance with the practice under Expression in the practice und	action is non-final. nce except for formal matters, pro			
Disposition of Claims				
4) Claim(s) 1-14,16-20 and 22 is/are pending in the 4a) Of the above claim(s) is/are withdraw 5) Claim(s) is/are allowed. 6) Claim(s) 1-14,16-20 and 22 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or are subject to restriction and/or are subject to by the Examine 10) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) access Applicant may not request that any objection to the Replacement drawing sheet(s) including the correction 11) The oath or declaration is objected to by the Examine 11) The oath or declaration is objected to by the Examine 11) The oath or declaration is objected to by the Examine 11)	vn from consideration.  r election requirement.  r.  epted or b) □ objected to by the Edrawing(s) be held in abeyance. See ion is required if the drawing(s) is objected to by the legan control of the drawing(s) is objected to by the legan control of the drawing(s) is objected to by the legan control of the drawing(s) is objected to by the legan control of the drawing(s) is objected to by the legan control of the drawing(s) is objected to by the legan control of the	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).		
Priority under 35 U.S.C. § 119				
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) All b) Some * c) None of:  1. Certified copies of the priority documents have been received.  2. Certified copies of the priority documents have been received in Application No  3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.				
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO/SB/08)  Paper No(s)/Mail Date 9/4/07.	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ite		

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### **DETAILED ACTION**

## Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1,7 and 22 are rejected under 35 U.S.C. 102(e) as being anticipated by Sato et al. (USPUB2003/0168836).

Sato discloses a side airbag (1) apparatus (see at least Figs. 7 and 8) having side aspect including a generally triangular portion when the airbag is deployed. The side aspect being "at least partially" defined by a posterior edge, a top edge extending forward from the posterior edge, at least a potion of the bottom edge extending forward and upward toward the top edge, such that the side aspect narrows from a back region to a front region to at least partially define the generally triangular portion. Due to the broad language of "at least a portion" of the bottom edge, the term "triangular portion", and "at least partially define" the airbag of Sato includes a tapering portion (in side view, the forward half of the airbag) that has "a portion" of the bottom edge extending forward and upward from the posterior edge. It includes a triangular portion (not claimed to be

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the entire side of the airbag). Given this "sub" portion, there is a posterior and forward area of this sub-portion.

Sato shows an inflator cooperating with the airbag to supply gas thereto, thereby facilitating deployment of the airbag.

The airbag shows what is well known in the airbag art, to provide a reinforced region (any area of the airbag such as the central portion/chamber) for providing additional strength to the airbag.

The portion of the bottom edge extending forward and upward is connected to the top edge by a radiused corner (near 16).

# Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 2,8,13 and 14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sato et al. (USPUB2003/0168836) in view of Zhao et al. (USPN 9,991,257).

Sato et al. has been discussed in the prior rejection. However, the airbag of Sato et al. does not have a wedge shape rear aspect.

Zhao et al. (as shown in at least Figs. 4A and 4B) shows a side airbag having a generally wedge shaped rear aspect narrowing from an upper region to a lower region.

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This shaped would provide more protection in the upper torso/upper arm region of an occupant.

It is well known in the airbag art to have various shapes for airbags that provide protection in a variety of vehicle locations and with respect to parts of a vehicle occupant's body as deemed necessary.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the airbag of Sato et al. so as to provide a wider portion of the airbag towards the upper portion of the airbag and a tapering portion towards the lower portion (where impact with the occupant's torso not as harsh due to the mass and width of the upper torso) so as to provide a wedge-shaped rear aspect as taught by Zhao et al. so as to provide enhanced protection for an occupant seated adjacent the deployed airbag.

Claims 3 and 6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sato et al. (USPUB2003/0168836) in view of Kai et al. (USPN 7,108,278).

Sato et al. has been discussed in the prior rejection. However, the airbag of Sato et al. does not have a wedge shape top aspect or vent holes to exhaust air from the airbg.

Kai et al. (as shown in at least Fig. 6) shows a side airbag having a generally wedge shaped top aspect narrowing from a posterior region to a front region. This shaped would provide more protection in the upper torso/upper arm region of an occupant.

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It is well known in the airbag art to have various shapes for airbags that provide protection in a variety of vehicle locations and with respect to parts of a vehicle occupant's body as deemed necessary.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the airbag of Sato et al. so as to provide a wider portion of the airbag towards the porterior portion of the airbag and a tapering portion towards the front portion (where impact with the occupant's torso not as harsh due to mass and width of the upper torso) so as to provide a wedge-shaped top aspect as taught by Kai et al. so as to provide enhanced protection for an occupant seated adjacent the deployed airbag.

Claims 4,5 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sato et al. (USPUB2003/0168836) in view of Keshavaraj et al. (USPN 6,344,251).

Sato et al. has been discussed in a prior rejection. However, Sato et al. does not show the airbag comprising a polymeric material of at least 600 denier or the inflator configured to inflate the airbag to at least 25 pounds per square inch.

Although Examiner maintains that it is well known in the art to use a known fabric of desired strength and an inflator that provides adequate inflation for occupant protection. Examiner is further relying on Keshavaraj et al. for this teaching.

Keshavaraj et al. (see col. 2, lines 45-67) discloses the use of a polymeric material having up to 840 denier and compatible with inflation of (col. 1, lines 50-52) pressures as high as 50 psi.

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It would have been obvious to one of ordinary skill in the art at the time the invention was made to use any known material and inflator characteristics in the airbag arrangement of Sato et al. such as one having the parameters and that is disclosed by Keshavaraj et al. since providing a strong airbag would be more durable and provide enhanced protection for the occupant seated beside the airbag.

Claims 9,12 and 18-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sato et al. (USPUB2003/0168836) in view of Zhao et al. (USPN 6,991,257) as applied to claims 2,8,13 and 14 above, and further in view of Kai et al. (USPN 7,108,278).

Sato et al. in view of Zhao et al. have been discussed in a prior rejection.

However, neither reference shows a wedge shaped top aspect.

Kai et al. (as shown in at least Fig. 6) shows a side airbag having a generally wedge shaped top aspect narrowing from an posterior region to a front region. This shaped would provide more protection in the upper torso/upper arm region of an occupant.

It is well known in the airbag art to have various shapes for airbags that provide protection in a variety of vehicle locations and with respect to parts of a vehicle occupant's body as deemed necessary.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to further modify the airbag of Sato et al. in view of Zhao et al. to further have a tapered view from the top aspect, narrowing from a posterior region to a

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front region as taught by Kai et al. so as to provide enhanced protection for an occupant seated adjacent the deployed airbag.

Claims 10,11,16 and 17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sato et al. (USPUB2003/0168836) in view of Zhao et al. (USPN 6,991,257) as applied to claims 2,8,13 and 14 above, and further in view of Keshavaraj et al. (USPN 6,344,251).

Sato et al. in view of Zhao et al. has been discussed in a prior rejection.

However, neither Sato et al. nor Zhao et al. show the airbag comprising a polymeric material of at least 600 denier or the inflator configured to inflate the airbag to at least 25 pounds per square inch.

Although Examiner maintains that it is well known in the art to use a known fabric of desired strength and an inflator that provides adequate inflation for occupant protection, Examiner is further relying on Keshavaraj et al. for this teaching.

Keshavaraj et al. (see col. 2, lines 45-67) discloses the use of a polymeric material having up to 840 denier and compatible with inflation of (col. 1, lines 50-52) pressures as high as 50 psi.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to use any known material and inflator characteristics in the airbag arrangement of Sato et al. in view of Zhao et al. such as one having the parameters and that is disclosed by Keshavaraj et al. since providing a strong airbag would be more durable and provide enhanced protection for the occupant seated beside the airbag.

Applicant's arguments with respect to claims 8 and 13 have been considered but are most in view of the new ground(s) of rejection. Applicant successfully argued that the applied references in the Office Action of 5/3/07 did not show a side aspect having generally triangular portions. Therefore this Office Action is Non-Final.

Response to Arguments

However, the present claims are properly rejected by the applied references in this Office Action. The broad limitations of triangular "portion", "at least a portion" of the bottom edge, "at least partially define" the generally triangular portion" and posterior/front "region" are so broad that the applied references properly read on the claimed limitations. The use of the term "portion" and/or "region", can be defined as any portion of the airbag, that being on a diagonal, more or less than half of the airbag, etc. Applicant has not claimed the particular detail of the invention to read over the applied references.

#### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to George D. Spisich whose telephone number is (571) 272-6676. The examiner can normally be reached on Monday-Friday 9:00 to 6:30 except alt. Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Paul Dickson can be reached on (571) 272-6669. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

George D. Spisich November 12, 2007 RUTH ILAN DDIMARY FXAMINER